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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/700,669	01/03/2001	Bernt Sweder Van Asbeck	30394-1041 7552  EXAMINER		
5179	7590 11/04/2003				
PEACOCK MYERS AND ADAMS P C			KETTER, JAMES S		
P O BOX 26927 ALBUQUERQUE, NM 871256927			ART UNIT	PAPER NUMBER	
			1636		
		DATE MAILED: 11/04/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.



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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION		ATTORNEY DOCKET NO.	
				EXAMINER	
			ART UNIT	PAPER	
				102903	
			DATE MAILEI	<b>D</b> :	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Pat nts

--See attached--

		Application No.	Applicant(s)	
Office Action Summary		09/700,669	VAN ASBECK ET AL.	
		Examiner	Art Unit	
		James S. Ketter	1636	
The MAILII Period for Reply	NG DATE of this communication app	pears on the cover sheet with the c	orrespondence address	
THE MAILING DA  - Extensions of time ma after SIX (6) MONTHS  - If the period for reply s  - If NO period for reply within the control of the	STATUTORY PERIOD FOR REPL' TE OF THIS COMMUNICATION. y be available under the provisions of 37 CFR 1.1 from the mailing date of this communication. pecified above is less than thirty (30) days, a repli- s specified above, the maximum statutory period of the set or extended period for reply will, by statute the Office later than three months after the mailing ustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days vill apply and will expire SIX (6) MONTHS from to , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
1) Responsiv	e to communication(s) filed on	<u> </u>		
2a)⊠ This action	is <b>FINAL</b> . 2b) Th	is action is non-final.		
	application is in condition for allowate cordance with the practice under <b>s</b>			
4)⊠ Claim(s) <u>7-</u>	21 is/are pending in the application	l <b>.</b>		
4a) Of the al	pove claim(s) <u>11-13</u> is/are withdrav	vn from consideration.		
5) Claim(s)	is/are allowed.			
6)⊠ Claim(s) <u>7-1</u>	10 and 14-21 is/are rejected.			
7)	is/are objected to.			
8) Claim(s)	are subject to restriction and/o	r election requirement.		
Application Papers				
9) The specification	ation is objected to by the Examine	r.		
10) The drawing	(s) filed on is/are: a)□ accep	oted or b) objected to by the Exan	niner.	
	ay not request that any objection to the			
	d drawing correction filed on	- , ,,	ved by the Examiner.	
	corrected drawings are required in rep	•		
•	declaration is objected to by the Ex	aminer.		
Priority und r 35 U.S				
	ment is made of a claim for foreigr	priority under 35 U.S.C. § 119(a)	i-(d) or (f).	
· <u> </u>	Some * c) None of:			
	ied copies of the priority documents			
	ied copies of the priority documents			
ap	es of the certified copies of the prior oplication from the International Bu hed detailed Office action for a list	reau (PCT Rule 17.2(a)).	_	
_	nent is made of a claim for domesti	•		
	nslation of the foreign language pro nent is made of a claim for domesti	•		
Attachment(s)		,		
Notice of References     Notice of Draftsperso	s Cited (PTO-892) on's Patent Drawing Review (PTO-948) re Statement(s) (PTO-1449) Paper No(s) _		(PTO-413) Paper No(s) Patent Application (PTO-152)	

Application/Control Number: 09/700,669

Art Unit: 1636

Claims 11-13 stand withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in Paper No. 9.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 7 stands, and newly added 14-16 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention, for reasons of record set forth in the previous Office Action.

At page 7 of the amendment filed 1 August 2003, Applicants argue that the compounds recited are defined by the functions of binding to the nucleic acid, binding a metal ion, and promotion of hydroxyl radicals from hydrogen peroxide. Applicants then argue that no undue experimentation would have been required to determine if a compound possessed these functions. However, the instant rejection is for the lack of an adequate written description of the invention as claimed, not for a lack of enablement. As such, the question of "undue experimentation" is moot. Applicants then argue that there is no evidence that the potential genus of these compounds is very large. However, each of the three recited functions was known in the art to have been effected by a number of different chemical structures: many

Art Unit: 1636

different nucleic acid binding structures were known; many different structures for binding metal ions were known; and numerous means of catalyzing the breakdown of hydrogen peroxide to produce hydroxyl radical were known. The potential combinations thereof are therefore very large in number. Moreover, any such molecule possessing this combination of functions must also be of a structure which would function as disclosed in the treatment of a viral disease. However, it would not have been clear from the art or the instant disclosure what structure-function relationship there would be between a structure with the three chemical activities and the further required function of treatment of a viral disease, i.e., as an actual pharmaceutical. Historically, the lack of robust structure-function relationships has frustrated the pharmaceutical art. While the disclosure of bleomycins and adriamycins is noted, it is not apparent that these would be the only molecules encompassed by the claims.

Claims 7-10, and newly added 14-16 and 19-21 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

For clarity, it should be noted that this rejection is also for lack of an adequate written description, the grounds being distinct from those of the other written description rejection, above.

The instant claims recite "an iron-chelating compound that is unable to promote the formation of hydroxyl radicals from hydrogen peroxide." However, the size of the genus of molecules encompassed by this genus is potentially very large. Furthermore, the recited

Art Unit: 1636

molecule must function to treat the viral disease or to permit the nucleic acid-binding molecule to do so. As noted in the rejection above, the lack of clear structure-function relationships, i.e., between the hypothetical or proposed activity of a compound based upon its structure and its actual function as a pharmaceutical has been a problem in the pharmaceutical art. Clearly, a representative sample of such potential molecules has not been provided.

Claims 14 and 17-21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Again, for the sake of clarity, it is pointed out the present rejection is for the presence of new matter in the instant claims.

Claim 14 recites that the nucleic acid-binding chemotherapeutic agent and the iron-chelating compound are administered simultaneously. However, there is not description in the specification as filed for the timing or order of delivery of the compounds such as to support this limitation.

Claims 17-21 exclude methods of treatment wherein the patient has Kaposi's sarcoma or lymphoma. There is no support for this limitation in the specification, however.

Art Unit: 1636

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Certain papers related to this application may be submitted directly to the Examiner by facsimile transmission at (703) 746-5155. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993)(see 37 CFR ' 1.6(d)). To send the facsimile to the Art Unit instead, the Art Unit 1636 Fax number is (703) 305-7939. NOTE: If Applicant does submit a paper by fax to this number, the Examiner must be notified promptly, to ensure matching of the faxed paper to the application file, and the original signed copy should be retained by Applicant or Applicant's representative. (703) 308-4242 or (703) 305-3014 may be used without notification of the Examiner, with such faxed papers being handled in the manner of mailed responses. Applicant

Application/Control Number: 09/700,669 Page 6

Art Unit: 1636

is encouraged to use the latter two fax numbers unless immediate action by the Examiner is

required, e.g., during discussions of claim language for allowable subject matter. NO

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papers in the Office.

Any inquiry concerning this communication or earlier communications from the

Examiner with respect to the examination on the merits should be directed to James Ketter

whose telephone number is (703) 308-1169. The Examiner normally can be reached on M-F

(9:00-6:30), with alternate Fridays off.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's

supervisor, Remy Yucel, can be reached at (703) 305-1998.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-1234.

Jsk

October 29, 2003

AMES KETTER
PRIMARY EXAMINER